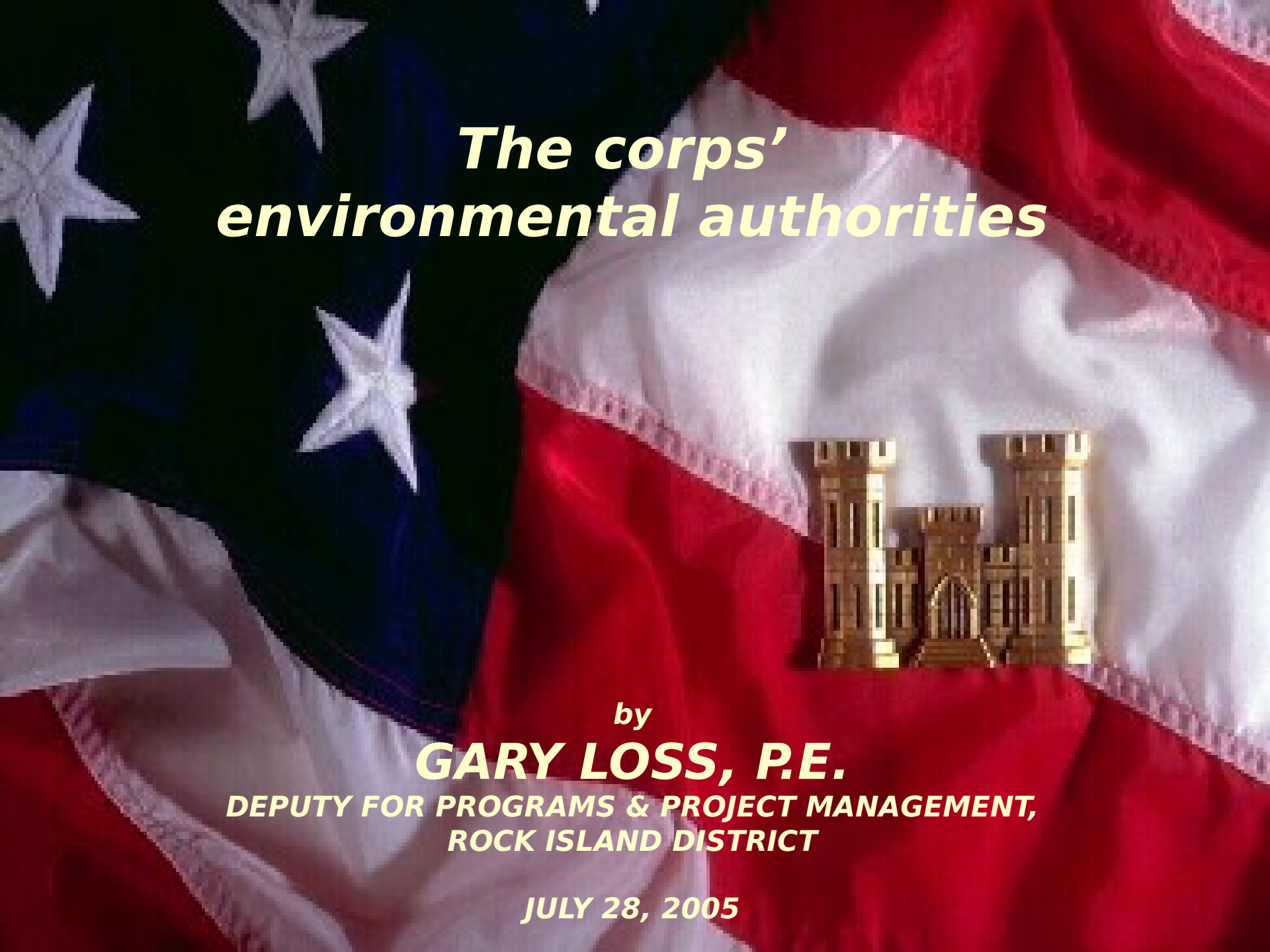

The corps' environmental authorities

by

GARY LOSS, P.E.

DEPUTY FOR PROGRAMS & PROJECT MANAGEMENT,
ROCK ISLAND DISTRICT

JULY 28, 2005

US Army Corps of Engineers®

U.S. Army Corps of Engineers

The Corps' mission:

- Water Resources Development
- Environment
- Infrastructure
- Disasters
- Warfighting

OUR MISSION
PEACE
WAR
SPECTRUM OF USACE OPERATIONS
Water Resources
Environment
Infra-structure
Disasters
Warfighting
Creating synergy between water resource development and environment
Restoring, managing and enhancing ecosystems, local and regional
Building and sustaining the critical facilities for military installations and the public
Responding to local, national and global disasters
Providing full spectrum engineering and contingency support

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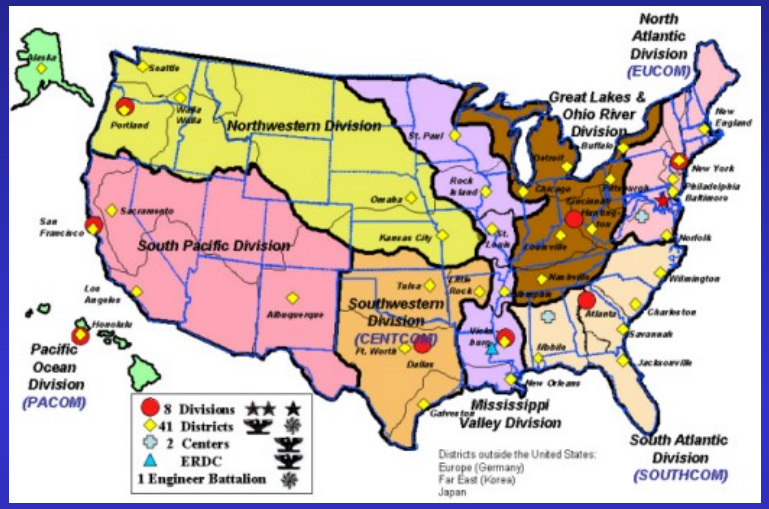
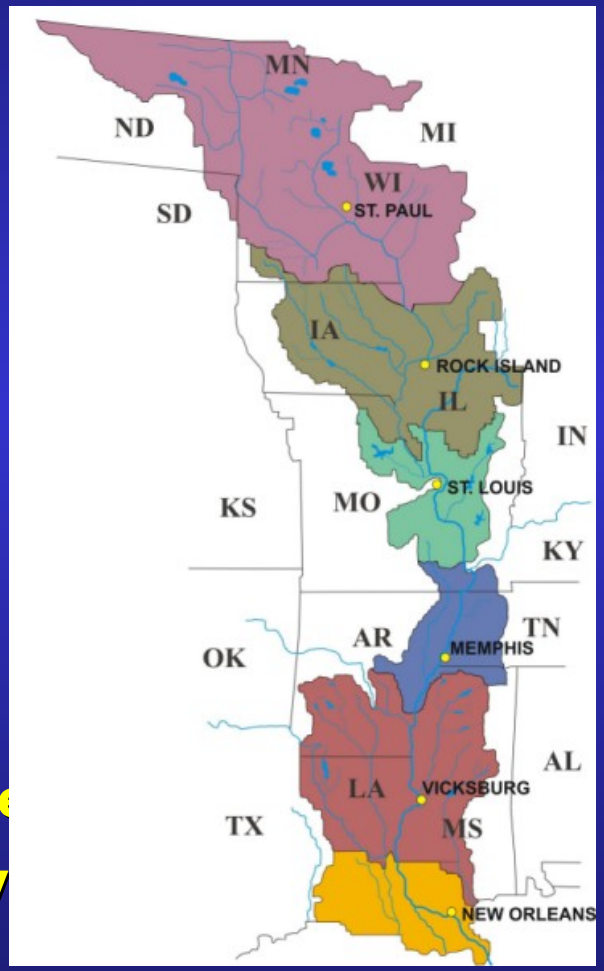
Mississippi Valley Division





- **Six districts**
- **5,000+ employees**
- **370,000 square mile boundary, encompassing all or parts of 12 state**
- **4,267 miles of commercial waterway**
- **44 flood control lakes/reservoirs**

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Rock Island District

- Primarily a civil works district
- 78,000 square miles
- Portions of 5 states
- Operate 582 miles of 9-foot navigation channel
- 20 lock & dam sites
- 5 flood control reservoirs
- 900 employees

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Environmental Protection & Restoration

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Environmental Authorities & Programs

- Continuing Authorities Program
- Environmental Management Program
- Ecosystem Restoration Program from the Navigation Study
- Illinois River Restoration Activities

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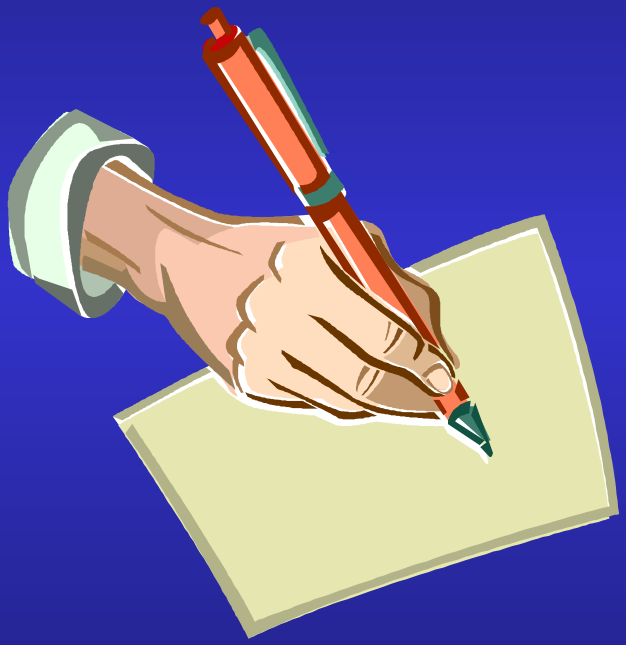
Authorities vs. Appropriations



- **Authorities = Permission**
- **Appropriation = Money to Make It Happen, Must be Received Yearly**

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Continuing Authorities Program

- **Section 1135 – project modifications for improvements to the environment**

- **Section 204 – beneficial use of dredge materials**

- **Section 206 – aquatic ecosystem restoration**

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Section 1135 (Project Modifications for Improvement of Environment)

1. Federal limit $5M
2. “Work-in-kind”
3. 75%-25% cost share

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Section 1135

- **Initial study is 100% federally funded up to $10,000**

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Section 1135

Mill Creek/Milan Bottoms, Rock Island, Illinois

Before

After

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Section 204 (Beneficial Use of Dredge Materials)

Sponsor assumes costs >$5M federal limit

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Section 204

- Cost shared 75% & 25% non-federal for costs over the ba
- No work-in-kin

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Section 204

Blackhawk Bottoms, Pool 19, Iowa

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Section 206 (Aquatic Ecosystem Restoration)

- Preliminary plan is 100% federal up to $10,000
- Remainder cost shared 65% & 35%
- Non-federal share may be work-in-kind

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Section 206

Kankakee River, Illinois

U.S. Army Corps of Engineers Projects within the Illinois River Basin
Chicago District
Rock Island District
Rock Island District
St. Louis District
Jo Daviess
Stephenson
Winnebago
Boone
Lake
McHenry
Rockford
Carroll
Ogle
Cook
Kane
De Kalb
Du Page
Chicago
Whiteside
Lee
Chicago L&D
T.K O'Brien L&CW
Lockport L&D
Joliet
Brandon Road L&D
Dresden Is. L&D
La Salle
Kendall
Will
Moline
Rock Island
Henry
Bureau
La Salle
Marseilles L&D
Starved Rock L&D
Grundy
Kankakee
Mercer
Putnam
Stark
Marshall
Livingston
Knox
Warren
Peoria
Woodford
Peoria
East Peoria
Henderson
Peoria L&D
Iroquois
Normal
Bloomington
Ford
McDonough
Tazewell
McLean
Hancock
Fulton
Logan
De Witt
Mason
Urbana
Champaign
Vermilion
Schuyler
Adams
Beardstown
Menard
Macon
Champaign
Brown
La Grange L&D
Cass
Decatur
Morgan
Springfield
Pike
Scott
Sangamon
Christian
Greene
Macoupin
Shelby
Calhoun
Montgomery
Jersey
Fayette
Bond
Alton
Madison
Hennepin Canal
Illinois River
Vermilion River
Kankakee River
Des Plaines River
Fox River
Waubonsie Cr.
Blackberry Cr.
Le Moine River
Sangamon River
Salt Creek
McKee Creek
Illinois River
Legend
Cities
Rivers & Streams
Locks & Dams
Illinois River Basin
COE District Boundaries
County Boundaries
1 - Aqautic Nuisance Barrier
2 - T.J. O'Brien L&CW Rehab.
3 - Lockport Upper Pool Rehab.
4 - Kankakee R. Riffles Sec. 206
5 - Kankakee R. State Line Sec. 206
6 - Iroquois R. Sec. 519
7 - Plum Island Easement
8 - Waubonsie Cr. Sec. 519
9 - Blackberry Cr. Sec. 519
10 - Peoria Lake HREP
11 - Peoria Riverfront
12 - East Peoria LFPP
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14 - Pekin Lake S. Unit Sec. 519
15 - Banner Marsh HREP
16 - Rice Lake HREP
17 - Chautauqua Refuge HREP
18 - Emiquon Sec. 206/NESP
19 - Sangamon Sediment Trap
20 - Spunky Bottoms Sec. 1135
21 - McKee Cr. Sec. 519
22 - Stump Lake HREP
23 - Swan Lake HREP
24 - Calhoun Point HREP

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Specifically Authorized Environmental Programs

- Environmental Management Program
- Navigation & Environmental Sustainability Program
- Illinois River Ecosystem Restoration
- Illinois River Basin Restoration
- Peoria Riverfront

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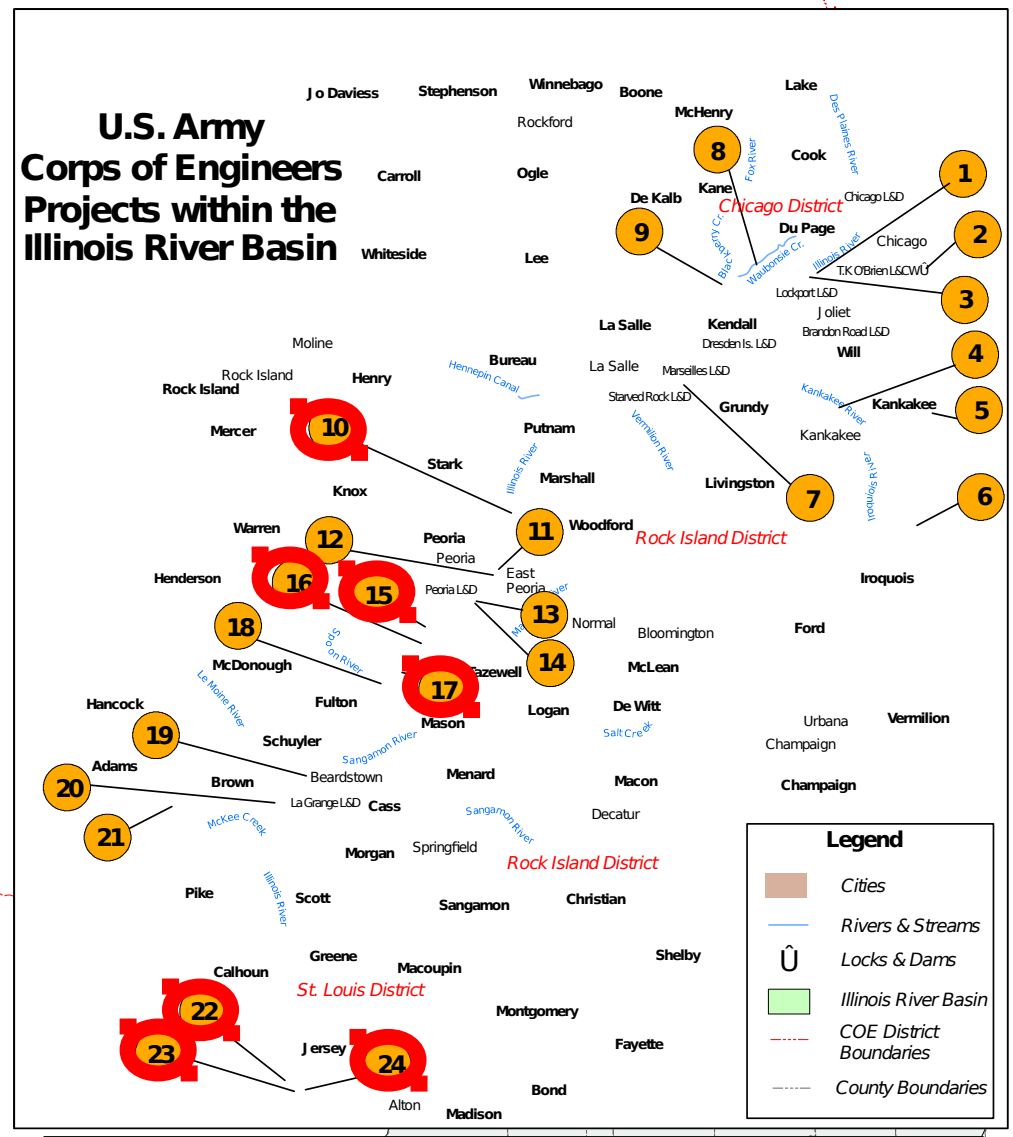
Environmental Management Program

Rock Island District Environmental Management Program Projects

Current Projects	Status
Gardner Division	Construction completion (Sept 05)
Lake Odessa	Construction start (sched. 06)
Pool 11 Stage 2 (sched. Aug 05)	Construction completion
Pool 12 Overwintering July 07)*	Construction start (sched.
Rice Lake 07)*	Construction start (sched. June
Fox Island 06)*	Feasibility completion (sched.
08)*	Construction start (sched. June

Additional EMP projects are being completed by St. Paul and St. Louis Districts.

U.S. Army Corps of Engineers Projects within the Illinois River Basin



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Upper Mississippi River-Illinois Waterway System Navigation Study Now: Navigation & Environmental Sustainability Program

- Chief's of Engineer's Report Signed Dec. 2004.
- Estimated construction start date: FY2006 (contingent on authorization)
- Scheduled completion date: FY2020 (contingent on authorization)
- Authorization status

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Ecosystem Restoration Implementation

$1.58 Billion In First 15 Years

- Fish passage @ dams 4, 8, 22* & 26*
- Changes in water level control @ dams 25 and 16 (25*)
- Adaptive implementation of 225 small projects of less than $25 million each
  - Island building*
  - Water level management*
  - Backwater/side channel restoration*
  - Wing dam/dike alterations*
  - Island shoreline protection*
- 35,000 acres of floodplain restoration
- Continued study & monitoring

* Initiate in FY05

Programmatic

Feasibility Wrap-Up
Program Mgmt.
Mangmt. Plan
Program Mgmt. Plan Dev.
Ecosystem Adaptive Mangmt. System
Systemic Public Involvement

Island)

2)

Environmental

Systemic Env. Mitigation
Ecosystem Rest. &

Forest Management
Cultural Stewardship
Island Building

Fish Passages L/D 22 & 26
Floodplain Restoration
Water Level Management
Backwater Restoration
Side Channel (Schenimann
Chute, Buffalo

Wing Dam/Dike Alterations
(Herculaneum, Pool

Island Shoreline Protection
Dam Point Control (L/D 25)
Dam Embankment Lowering

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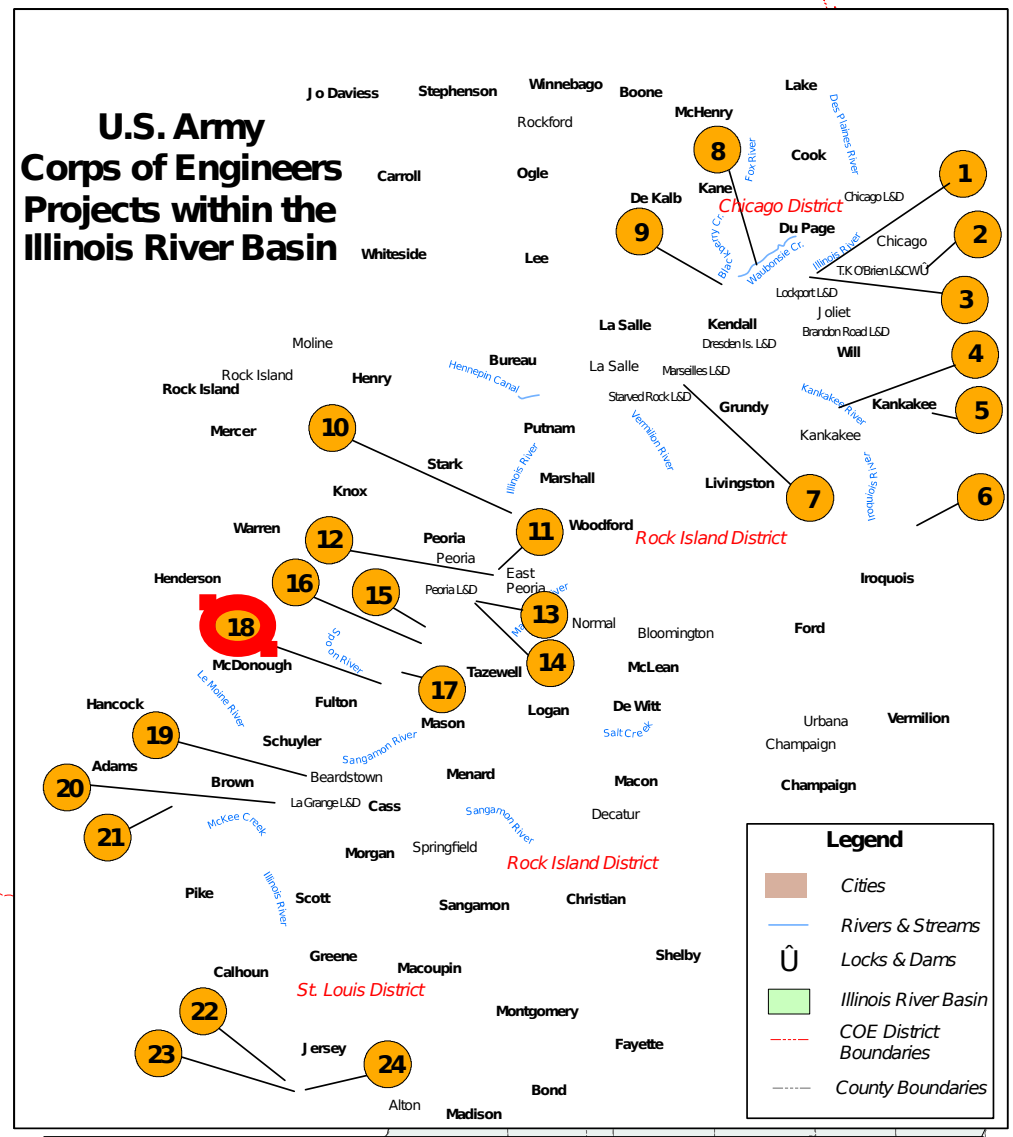
FY05 Implementation Plan

- Work allowance $11.3M (Congressional Add)
- 32 new projects
- Programmatic projects (5) $1.9M
- Ecosystem restoration projects (19) $4.6M
- Primary activities focused on:
  - Decision documents (planning)
  - Engineering and design
  - Collection of pre-project monitoring data
  - Site specific evaluations
  - Public meetings



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Illinois River Restoration Activities

Illinois River Ecosystem Restoration, aka Section 216

- Looks at the entire watershed.
- It is the original authority to study the Illinois River.
- It does not allow us to construct anything.

Illinois River Basin Restoration, aka Section 519

- Looks at the entire watershed.
- It not only studies the river and its watershed, but also allows for the construction of restoration projects.

Peoria Riverfront

- This is a specific project to create three islands in the river.
- Although it is separate from the other two, some of its construction will be conducted under the Section 519 authority.

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Illinois River Ecosystem Restoration, AKA 216

- **Authority: Section 216 of the Flood Control Act of 1970**
- **FY 2006: Public review of the Draft Comprehensive Plan is scheduled this fiscal year**
- **When Comprehensive Plan is completed, the study is complete.**

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Illinois River Basin Restoration, AKA 519

- **Authority: Section 519 of WRDA 2000**
- **FY 2005**
  - **Address HQ policy issues**
  - **Develop list of additional critical restoration projects**
- **FY 2006**
  - **Public review of the draft comprehensive plan is scheduled this fiscal year**
  - **General investigation funding -- would allow continuation of critical restoration project planning**
  - **Construction general funding – would complete plans & specs & start construction of critical restoration projects at Pekin Lake Northern & Southern Units, Peoria riverfront, & Waubonsie Creek**

Illinois River Basin Rest. Recommendations

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- Time extension & funding authority increase not required

- Federal per project limit be increased from $5 mil to $20 mil
- Technologies and Innovative Approaches Component Authorized
- Coop agreements between Corps of Engineers and State, U of I , and units of local government
- Cooperative agreements with NRCS
- NGOs added as potential sponsors
- Report to Congress every 6 years

Illinois River Basin Rest. Tiered Implementation

US Army Corps of Engineers

- 2011 - $155 million program ($100 million Fed)
  - Projects $122 M
    - Small Watersheds – 5 watersheds
    - Major Tribs – 1 reach
    - Mainstem – 3 backwaters, 2 SC/Islands, 1 floodplain
  - Technologies and Innovative Approaches $30 M
  - Management $3M
- 2015 - $385 million program ($250 million Fed)
  - Projects $320 M
    - Small Watersheds – 10 watersheds
    - Major Tribs – 3 reach
    - Main Stem – 4 backwaters, 4 SC/Islands, 2 floodplain
  - Technologies and Innovative Approaches $58 M
  - Management $7 M
- 2055 - $8 billion total – ALL AGENCIES/PROGRAMS
  - Projects $7.2
    - Small Watersheds – 150 watersheds
    - Major Tribs – 88 reach
    - Main Stem – 60 backwaters, 35 SC/Islands, 150 floodplain
  - Technologies and Innovative Approaches $700 M
  - Management $55 M

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Illinois River Ecosystem Restoration, AKA 216

+

Illinois River Basin Restoration, AKA 519 =

One Comprehensive Plan that merges both

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Peoria Riverfront

- **Authority: Illinois River Basin Restoration authority (sec 519, WRDA 2000). Separate authorization is still needed for the lower islands based on costs exceeding the section 519 limits**
- **FY2005: Complete plans & specs efforts for the upper island & signing of a project cooperation agreement under Section 519 authority**
- **FY2006: Funding would allow continuation of plans & specs with design of lower islands**

Points of Contact

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  309-794-5501

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Rock Island District Website: www.mvr.usace.army.mil